

ABSTRACT OF THE DISCLOSURE

This invention provides an anti-crash safety seat in a motor vehicle, in which a backrest and so on are provided on a moveable bracket that can move backwards. A front shaft with bearings, a back shaft with bearings, and a seat control system for controlling the seat by making use of the inertia force and electromagnetic force are provided on the moveable bracket. The moveable bracket is mounted on a fixed frame by the bearings, shafts and nuts. The fixed frame is fixed on a floor of a cab of the motor vehicle and has an energy-absorbing plate, energy-absorbing bearings and two rails parallel each other thereon. When the motor vehicle collides, the energy-absorbing components in the seat absorb and transform the kinetic energy of the seat. The seat control system is actuated by a switch, so as to release the seat from being locked. Under the elastic force of the safety belt and so on, a driver and/or a passenger and the seat can move backwards to the safety zone together, achieving the goal of protecting the driver and/or passenger from being crushed.